

Organolithium Synthesis of Hydrocarbons and
Their Oxygen-Containing Derivatives

SOV/74-27-12-3/4

hydryl phenyl ether which was substituted by alkali metal. In the last investigation of this series it was proved (Ref 6) that the isomerization product in tetrahydro furan yields 85 - 93% and that it is the lithium alkyls which have the highest isomerizing effect in the metal alkyl series. Furthermore, the isomerization mechanism was described in all the details and the relative capacity of lithium and other metals to form complexes as well as the properties of such complexes were investigated (Refs 7 and 8). This survey is subdivided into 4 chapters. Chapter one deals with the methods employed for the synthesis of organic lithium compounds on the basis of investigations carried out by Gil'man, Vavon, Braude, Kocheshkov, Mikhaylov and others. In the second chapter the reactions of condensation of organic lithium compounds with alkyl halides and aryl halides are described. Chapter three deals with the condensation of organic lithium compounds with aldehydes, ketones and esters, i.e. the synthesis of alcohols and glycols is described, which, owing to the great reactivity of organic lithium compounds, almost always proceeds according to normal schemes. According to the normal method not only

Card 3/4

Organolithium Synthesis of Hydrocarbons and
Their Oxygen-Containing Derivatives

SOV/74-27-12-3/4

saturated but just as well unsaturated alcohols and glycols can be synthesized since lithium forms reactive derivatives even from α -alkyl halides. Finally, the fourth chapter deals with the additions of organic lithium compounds to multiple bonds of conjugate hydrocarbon dienes and carbons of the olefin series. These reactions are quite likely to be of greatest importance for the industry employing organic synthesis. There are 130 references, 21 of which are Soviet.

Card 4/4

88921

S/153/60/003/006/003/009
B103/B206

11.1210

AUTHORS: Sokolova, Ye. B., Shebanova, M. P.

TITLE: Synthesis of some homologs of cyclohexane with a composition $C_{15} - C_{19}$ with raised "volume" heat of combustion

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniv. Khimiya i khimicheskaya tekhnologiya, v. 3, no. 6, 1960, 1040-1044

TEXT: The authors report on the synthesis of monoalkyl-substituted cyclohexane homologs of the type $C_{15} - C_{19}$ with branched alkyl chain and on the determination of their physical and chemical properties, among them of the "weight" and "volume" heat of combustion of artificial mixtures of some synthesized naphthene- and isoparaffin hydrocarbons. The effect of mixing on the heat-of-combustion value was to be clarified by the latter experiment. Table 1 contains the physical properties of: I. 2-methyl-4-ethyl-4-cyclohexyl hexane, II. 2,2,5-trimethyl-3-cyclohexyl hexane, III. 2,2,4,6-tetramethyl-4-cyclohexyl heptane, IV. 2-methyl-5-propyl-5-cyclohexyl octane,

Card 1/6

88921

S/153/60/003/006/003/009
B103/B206

Synthesis of some homologs of...

V. 5-butyl-5-cyclohexyl nonane, VI. 2,6-dimethyl-4-isobutyl-4-cyclohexyl heptane, VII. 4,9-dipropyl dodecane, and VIII. 5,10-dibutyl tetradecane. The properties and heat of combustion of the mixtures are given in Table 2: A = III, B = VII, C = VIII. The density and heat of combustion of the synthesized naphthene hydrocarbons are higher by about 3% than the corresponding values of their analogs with a normally built-up aliphatic chain. The authors conclude from Table 2 that the heat of combustion of the above mixtures follows the rule of additivity. T. A. Zhuravleva and L. P. Abramova participated in the experimental part. It follows therefrom that the cyclanes were prepared from suitable, alkylated benzene homologs by hydrogenation on Raney nickel (Ref. 7). There are 2 figures, 2 tables, and 8 references: 6 Soviet-bloc and 1 non-Soviet-bloc. X

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendel-eyeva; Kafedra tekhnologii neftekhimicheskogo sinteza
(Moscow Institute of Chemical Technology imeni D.I. Mendeleyev;
Department of the Technology of Petrochemical Synthesis)

SUBMITTED: January 30, 1959

Card 2/2

S/079/60/030/04/10/080
B001/B016

5.3400

AUTHORS:

Petrov, A. D., Sokolova, Ye. B., Gao Chin-lan

TITLE:

Reaction of Tert-butyl Lithium With Acid Esters

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4,
pp. 1107-1117

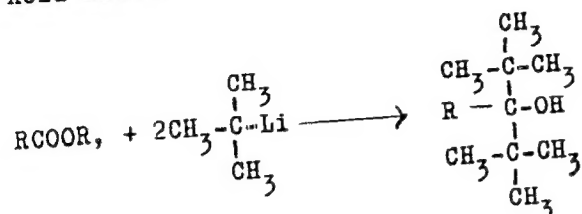
TEXT: In continuation of the papers by the authors (Refs. 1,2), i.e. the reactions (1) and (2) in which magnesium was finally replaced by Na, lithium was used instead of sodium in the present investigation, and the synthesis was performed in two stages instead of one. The condensation of the Li-alkyl with the esters took place at very low temperature (-35° , -40°C). The reaction prevalently took place according to the following scheme (3) with good yield:

Card 1/3

30753

S/079/60/030/04/10/080
B001/B016

Reaction of Tert-butyl Lithium With
Acid Esters



In contrast to the tert-butyl magnesium chloride which reacts anomalously with esters, the tert-butyl lithium reacts with esters of mono- and dibasic acids at -35, -40° in a normal way. In the case of the esters of monobasic acids (the saturated ones from C₂ to C₉, and the unsaturated undecylenic acid), the yields in tertiary alcohols fluctuated between 30 and 80%. In this connection, ketones RCOR₂ occurred as by-products the yield of which increases when the chain of the radical of the initial acid is elongated. In the case of formic acid ester, also a product of the normal reaction, the di-tert-butyl carbinol, results in an 85% yield. In esters of dibasic acids of high molecular weight such as adipic, azelaic,

Card 2/3

Reaction of Tert-butyl Lithium With
Acid Esters

S/079/60/030/04/10/080
B001/B016

sebacic acid, the yield in di-tertiary glycols is 25-35%. In addition to them, tertiary diketones and keto alcohols are formed as by-products. When using esters of low-molecular acids, e.g. succinic and oxalic acid, no glycols result but keto alcohols and diketones. In the case of oxalic acid, a secondary keto alcohol is formed in addition to the tertiary one. The reaction of the esters of dibasic acids is represented by reaction (4). The ester of malonic acid reacts with tert-C₄H₉Li according to a complicated scheme to give pinacolone, hexamethyl acetone, and di-tert-butyl carbinol (last scheme suggested). Five tables illustrate the investigation results. There are 5 tables and 18 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tehnologicheskii institut imeni
D. I. Mendeleyeva (Moscow Institute of Chemical Technology
imeni D. I. Mendeleyev)

SUBMITTED: April 27, 1959

Card 3/3

5.3700

S/079/60/030/06/09/009
B002/B016

AUTHORS: Sokolova, Ye. B., Shebanova, M. P., Zhichkina, V. A.

TITLE: Investigation of the Possibility of Substituting Higher Boiling Solvents for Diethyl Ether in the Ferrocene⁷ Preparation From Cyclopentadienyl-magnesium-bromide and Ferrous Chloride

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 6, pp. 2040-2042

TEXT: The industrial manufacture of ferrocene according to the method mentioned in the title has so far not been possible when using diethyl ether as solvent, owing to its ready volatility. In this study, the attempt was made to substitute higher boiling solvents for the ether and to use ferrous chloride instead of the ferric chloride formerly added to the reaction mixture. Two experimental series were made: 1) freshly prepared cyclopentadienyl-magnesium-bromide + FeCl_3 which is reduced during the reaction to FeCl_2 , in the solvents diethyl ether, di-n-butyl ether, diisopentyl ether, anisol, phenetol, triethylamine and dioxane. A higher yield

Card 1/3

Investigation of the Possibility of
Substituting Higher Boiling Solvents for
Diethyl Ether in the Ferrocene Preparation From Cyclopentadienyl-
magnesium-bromide and Ferrous Chloride

S/079/60/030/06/09/009

B002/B016

(61.3 and 45.7%) could only be obtained when using di-n.butyl ether and diisoamyl ether. No yield could be obtained with anisol and phenetol. If, however, dioxane was added in the latter cases in the 2nd reaction stage, a ferrocene yield of 38 and 40%, respectively, was obtained.

2) Cyclopentadienyl-magnesium-bromide + FeCl_2 which had been reduced from FeCl_3 prior to the reaction by means of chlorobenzene. In addition to the afore-mentioned solvents also tetrahydrofuran was used. It was shown that, when using diethyl ether or tetrahydrofuran in the first reaction stage, and adding FeCl_2 in the second without solvent, a yield of 71.2% may be obtained. Anisol (1st stage), dioxane (2nd stage) gave a yield of 36.6% ferrocene. It was thus generally confirmed that the diethyl ether may be replaced by some other ethers and that by direct use of powdered FeCl_2 in the solvents mentioned a higher yield may be obtained than that hitherto obtained by Kealy and Pauson (Ref. 1). In connection with the ferrocene reaction A. N. Nesmeyanov and E. G. Perevalova are mentioned.

Card 2/3

SOKOLOVA, Ye.B.; SHEBANOVA, M.P.; MRNKOVA, A.P.

Synthesis of the allyl-type bromide, $C_7H_{13}Br$, and its condensation by the Grignard-Wurtz reaction. Zhur.ob.khim. 30
no.7:2161-2164 J1 '60. (MIRA 13:7)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I.
Mendeleeva.

(Butene) (Hydrocarbons) (Condensation products)

SOKOLOVA, Ye.B.; SHEBANOVA, M.F.; SHCHEPINOV, S.A.

Organolithium synthesis and study of the properties of some
 α -alkylnaphthalenes of the composition $C_{18} - C_{20}$. Izv.vys.ucheb.-
zav.;khim.i khim.tekh. 4 no.4:617-620 '61. (MIRA 15:1)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleyeva,
kafedra tekhnologii neftekhimicheskogo sinteza.
(Lithium organic compounds) (Naphthalene)

25hh6

S/153/61/004/004/011/013
E141/E135

11.0132

AUTHORS: Skolova, Ye.B., Shebanova, M.P., and Ishkina, V.I.

TITLE: Alkylation of toluene with crude isooctene

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, vol.4, no.4, 1961, 657-660

TEXT: The authors attempted to synthesize the n-dialkyl-substituted $C_{15}H_{30}$ cyclohexane, a possible component of hydrocarbon fuels. Toluene and isooctene were used as starting materials. 2,4,4-trimethylpentene-1 and 2,4,4-trimethylpentene-2, the isomeric forms of the isobutylene dimer (Ref.1: A.D. Petrov, Khimiya motornogo topliva (Chemistry of motor fuel) Izd. AN SSSR, 1953, p.101) were obtained from crude isooctene by threefold distillation. Crude isooctene contains a considerable fraction (5 weight %) which boils at a temperature up to 101 °C; this fraction was distilled on a 1100 mm high column. The fraction boiling between 99 and 102 °C (constituting about 7 weight %) was also used as alkylating agent. The alkylation reaction was carried out according to the Friedel-Crafts reaction, in the presence of $AlCl_3$, under reaction conditions as described by Sanford

Card 1/2

28446

Alkylation of toluene with crude S/153/61/004/004/011/013
E141/E135

(Ref.3) R.A. Sanford, S.M. Kovach, B.S. Friedman. J. Amer. Chem. Soc., Vol.75, 6327 (1953)). The principal reaction product was the fraction boiling at 109 to 110 °C (75%). Its physical properties correspond to the properties of 2,2,4-trimethyl-4-(n-tolyl)-pentane which was previously described (Ref.3). The alkylation product was hydrogenated at a temperature of 180-190 °C for 15 hrs in an autoclave over a nickel catalyst and 2,2,4-trimethyl-4-(4-methylcyclohexyl)-pentane prepared; this compound has not been described previously in literature.

There are 3 tables and 4 references; 2 Soviet-bloc and 2 English. The English language references read as follows:

Ref.3, as in the text above.

Ref.4: D. Nightingale, J.R. Jones. J. Amer. Chem. Soc., Vol.66, 155 (1944).

ASSOCIATION: Kafedra tekhnologii neftekhimicheskogo sinteza,
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D.I. Mendeleeva (Department of Technology for
Card 2/2 Petrochemical Synthesis, Moscow Chemical-technological
Institute named D.I. Mendeleev)

SUBMITTED: June 26, 1959

S/079/61/031/001/025/025
B001/B066

AUTHORS: Sokolova, Ye. B., Shebanova, M. P., and Nikolayeva, L. F.

TITLE: A New Variant of the Amino Method in Ferrocene Synthesis

PERIODICAL: Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 332 - 333

TEXT: The "amino method" suggested by G. Wilkinson (Refs. 1, 2) by which ferrocene ($C_5H_5FeC_5H_5$) is obtained in the condensation of cyclopentadiene with $FeCl_2$ in the presence of organic bases is distinguished by its simplicity and the high yield (84 - 88 %) of the end product. $FeCl_2$ is to be obtained in its active form by reduction of $FeCl_3$ with powdery, finely ground metallic iron in tetrahydrofuran or dimethyl ether of ethylene glycol (Ref. 3). By observing all instructions given by G. Wilkinson for this amino method, the authors obtained ferrocene in a yield of 61 %, and not of 84 - 88 %; they apparently proceeded from initial products whose degree of purity was different. The highest ferrocene yield (65 %) was obtained by using butyl acetate instead of tetrahydrofuran. To simplify

Card 1/3

A New Variant of the Amino Method in
Ferrocene Synthesis

S/079/61/031/001/025/025
B001/B066

the synthesis of ferrocene, the data of the US patent 2719074 (Ref. 4) concerning the FeCl_2 production were used. This method rests upon heating of FeCl_3 with chloro benzene at 140°C ; the resultant FeCl_2 was found to be highly active in the condensation with cyclopentadiene in the presence of diethylamine. For a convenient comparison of the experimental results, all experiments were carried out with equal quantities of the reactants (Table). The ferrocene yield was calculated for iron. As may be seen from the table, satisfactory results were obtained in the experiments of series A (reduction of FeCl_3 by Fe), when using di-n-butyl ether, anisole, phenetole, ethyl butyrate, and butyl acetate as solvents. FeCl_3 is not reduced to FeCl_2 by metallic iron in pyridine, anhydrous alcohol, and acetone. If acetone is replaced by methyl isobutyl ketone, the ferrocene yield is 27 %. If in the above condensation triethylamine, pyridine, and sodium ethylate are used instead of diethylamine, the ferrocene yield suddenly drops. There are 1 table and 4 references: 1 Soviet and 3 US. ✓

Card 2/3

A New Variant of the Amino Method in
Ferrocene Synthesis

S/079/61/031/001/025/025
B001/B066

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni
D. I. Mendeleyeva (Moscow Institute of Chemical Technology
imeni A. I. Mendeleyev)

SUBMITTED: February 4, 1960

Card 3/3

27908

S/079/61/031/010/008/010
D227/D304

53750

AUTHORS: Sokolova, Ye. B., Shebancva, M.P., and Sheludyakov, V.D.

TITLE: Synthesis of di(methylindenyl)iron

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 10, 1961,
3379-3381

TEXT: The purpose of the present work was to synthesize di(methylindenyl)iron and study its properties. Three methods of preparing the compound were used. 1) Reacting 1-methylindenylmagnesium bromide with ferrous chloride. 2) Reacting 1-methylindenyl-lithium with ferrous chloride. 3) Reacting 1-methyl-indene with ferrous chloride in the presence of diethylamine. In the first method, 1-methylindene was added to a magnesium ethyl bromide solution in di-n-butyl ether until the color of the mixture changed to brown when FeCl_2 was added in portions. After refluxing for 5 hrs. at 110-120°C the mixture was distilled and the residue

Card 1/3

27903

S/079/61/031/010/008/010

D227/D304

Synthesis of di(methylindenyl)iron

extracted with ether. On concentration and cooling of the extract a black colored solid crystallized out which had a m.pt. of 107-108°C. In the second method, 1-methylindene was added to n-butyllithium in ether and the mixture heated on a water bath until its color changed to deep red. After cooling to 16°C FeCl_2 was added and the mixture refluxed for 3 hrs. The reaction product was then concentrated and cooled. A black solid separated out after 12 hrs. About 1/4 of the solid was washed with water, 10% HCl, water and ether, and then recrystallized from ether. Further purification was conducted by distillation at 70°C/3 mm and the m.pt. of the product was 107-109°C. In the third method, FeCl_2 was added to

1-methyl-indene solution in diethylamine and the mixture stirred for 18 hrs. The residue after steam distillation of the product was dried and redistilled to yield a product m.pt. 107-108°C. The investigations showed that di(methylindenyl)iron is unstable in organic solvents in the presence of air, except in ether at low temperatures. It is sufficiently stable in the dry state and is a

Card 2/3

Synthesis of di(methylindenyl)iron

27908
S/079/61/031/010/008/010
D227/D304

black crystalline solid m.pt. 107-109°C. There are 13 references: 7 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: P. Pouson, G. Wilkingson, J. Am. Chem. Soc. 76, 2024 (1954); P. Pouson, Quart. Rev. 9, 391 (1955); US Patent 2,719,074, H. Gilman, J. Biel, C. Brannen, M. Bullock, G. Dunn, L. Miller, J. Am. Chem. Soc. 71, 1499 (1949).

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology im. D.I. Mendeleyev)

SUBMITTED: December 24, 1960

X

Card 3/3

20323

5.3700

2209, 1273, 1282

S/020/61/137/001/015/021
B103/B201

AUTHORS: U Guan-li, Sokolova, Ye. B., Chlenov, I. Ye., and
Petrov, A. D., Corresponding Member AS USSR

TITLE: Synthesis of monovalent saturated alcohols and tertiary
acetylene alcohols of the ferrocene series

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 1, 1961, 111-112

TEXT: The authors have for the first time synthesized the following
alcohols of the ferrocene series: A) Monovalent saturated (Table 1: 1-4),
and B) Tertiary acetylene alcohols (5-7). ad A): 1 - α -hydroxy isopropyl
ferrocene, 2 - α -hydroxy- α -phenyl ethyl ferrocene, 3 - α -hydroxy- α -
phenyl propyl ferrocene, 4 - α -hydroxy- α -phenyl amyl ferrocene.
ad B): 5 - 3-methyl-3-ferrocenyl-3-hydroxy propyne-1, 6 - 3-methyl-3-
ferrocenyl-3-hydroxy propyne-1, and 7 - 3-phenyl-3-ferrocenyl-3-hydroxy
propyne-1. Alcohols A) were synthesized from acetyl ferrocene and
benzoyl ferrocene by condensation with Grignard reagents (the latter
prepared from saturated halogen alkyls) (see scheme no. 1). Conditions
of synthesis are described in Ref. 1 (Riemschneider, D. Helm, Ber. 89,

Card 1/5

20323

V

Synthesis of monovalent...

S/020/61/137/001/015/021
B103/B201

1956, 155). The reagents were stirred in benzene solution for 1 hr at 60°C, the reaction mixture was decomposed by saturated NH_4Cl solution, and the reaction product was recrystallized from diluted ethanol after purification on active carbon. The yield amounted to 58-72%. Alcohols B) resulted from acetylenyl magnesium bromide (prepared according to E. R. H. Jones and coworkers, J. Chem. Soc. 1956, 4765, Ref. 3) after scheme no. 2. As for the latter compound, acetyl ferrocene was dissolved in THF [Abstracter's note: probably tetrahydrofuran] at room temperature, added, stirred for 12 hr, decomposed like sub A), extracted with ether, and the extract was dried with Na_2SO_4 . The residue from the distillation of the solvent (dark-red liquid) was dissolved in hexane, boiled with active carbon, and the crystal precipitate was purified by recrystallization from diluted alcohol. In addition, the authors synthesized sodium acetylenide (according to H. Normant, B. Angelo, Bull. Soc. Chim. v. 2, 1960, 354, Ref. 4) at -15°C , and used it for condensation with acetyl and benzoyl ferrocene. Acetyl ferrocene dissolved in a THF solution was added to sodium acetylenide at -10°C . After the same treatment as mentioned above, the reaction product was submitted to chromatographic

Card 2/5

Synthesis of monovalent...

20323

S/020/61/137/001/015/021
B103/B201

analysis by means of Al_2O_3 . The authors succeeded in proving that alcohol no. 6 can be prepared in two ways (over C_2H_5MgBr and over C_2H_5Na), whereas no. 7 is formed over C_2H_5MgBr only. Conversely, they were not able to obtain alcohols B by Favorskiy's reaction. Finally, the fact is stressed that Iotsich's reagent (disubstituted organometallic acetylene reagent) does not react with either acetyl or benzoyl ferrocene. A paper by A. N. Nesmeyanov and coworkers is mentioned. There are 1 table and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleyeva
(Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: December 2, 1960

Card 3/5

S/062/62/000/005/006/006
B110/B101

AUTHORS: Wu Kuan-li, Sokolova, Ye. B., Leytes, L. A., and Petrov, A.D.

TITLE: Synthesis and properties of secondary and tertiary alcohols of the ferrocene series

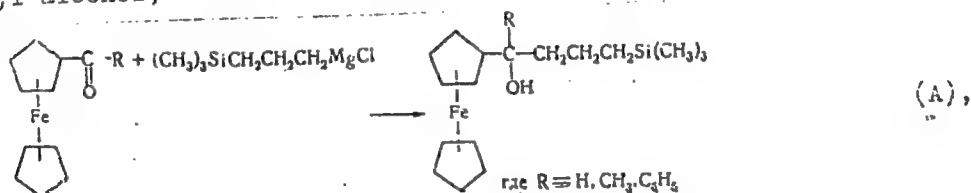
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 5, 1962, 887 - 892

TEXT: α -hydroxy- α -phenyl-propyl ferrocene was dehydrated: (1) at 120 - 150°C in the presence of KHSO_4 . A large amount of resin was obtained, and alkyl ferrocene could not be separated as it probably polymerizes under the action of the acid agent; (2) on an oil bath at 120 - 150°C (residual pressure 200 mm Hg). $\text{C}_{19}\text{H}_{18}\text{Fe}$ (m.p. 103 - 104°C) was separated with a yield of 53 %. Secondary ferrocene alcohols with a yield of 55 % were obtained from an ethereal solution of formyl ferrocene and organo-magnesium compounds ($\text{R} = \text{CH}_3, \text{C}_2\text{H}_5, \text{n-C}_4\text{H}_9, \text{C}_6\text{H}_5\text{CH}_2$) in slight excess. Secondary alcohols with a yield of 81 - 98 % were formed by Grignard reagents of methyl iodide, bromobenzene, and benzyl chloride with formyl
Card 1/3

S/062/62/000/005/006/006
B110/B101

Synthesis and properties of ...

ferrocene. C_2H_5MgBr , C_2H_5MgI , and C_2H_5MgBr form ethers. In addition, methyl- and benzyl-ferrocenyl carbinols were dehydrated over granular anhydrous Al_2O_3 at $200^\circ C$ and 36 mm Hg, and also at $150^\circ C$ in the presence of $KHSO_4$. Methyl-ferrocenyl carbinol formed di(ferrocenyl-methyl) methyl ether as a main product, and benzyl-ferrocenyl carbinol gave the relevant phenyl-alkenyl ferrocene with a yield of 70 %. Condensation of β -phenylvinyl ferrocene with triethyl silane, using H_2PtCl_6 as a catalyst in isopropyl alcohol, failed. According to the Grignard reaction



the following alcohols were obtained by condensing γ -chloropropyl trimethyl silane with carbinol derivatives of ferrocene: (1) ferrocenyl
Card 2/3

Synthesis and properties of ...

S/062/62/000/005/006/008
3110/3101

(γ -trimethyl-silyl-propyl) carbinol ($C_{17}H_{26}FeOSi$); (2) ferrocenyl-methyl
(γ -trimethyl-silyl-propyl) carbinol ($C_{18}H_{28}FeOSi$); (3) ferrocenyl-phenyl
(γ -trimethyl-silyl-propyl) carbinol ($C_{23}H_{30}FeOSi$) with yields of 75, 60,
and 30 %, respectively, and with the melting points $-28^{\circ}C$ (solidification
point), $-41^{\circ}C$ (solidification point), and $98 - 99^{\circ}C$, respectively. There
are 3 figures and 2 tables. The most important English-language reference
is: F. S. Arimoto, A. C. Haven, J. Amer. Chem. Soc. 77, 6295 (1955).

ASSOCIATION: Khimiko-tehnologicheskii institut im. D. I. Mendeleyeva
(Institute of Chemical Technology imeni D. I. Mendeleyev)
Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry imeni N. D.
Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: December 13, 1961

Card 3/3

S/079/63/033/001/013/023
D204/D307

AUTHORS: Sokolova, Ye. B., Shebanova, M. P. and Chou Heng-chin

TITLE: Synthesis of ferrocene analogs

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 217-220

TEXT: A continuation of earlier work (ZhOKH, 31, 3379 (1961)) in which di(methylindenyl) iron was prepared by condensing 1-methylindenyllithium with FeCl_2 . Condensations of 3-ethyl-, 3-butyl-, 3-allyl-, 3-phenyl-, and 3-benzyl-indenyllithium with FeCl_2 were studied in the present work. In a typical preparation ethereal alkylindene was added, with stirring, to $n\text{-BuLi}$, and the mixture was stirred for 2 hours on a water bath to form the Li derivative. FeCl_2 (obtained by the reduction of FeCl_3 with PhCl) was then added in portions to the cooled solution and the reaction mixture was stirred, first for 1 hour at room temperature, then for 2 hours at 100°C . The mixture was then cooled and the ethereal filtrate was

Card 1/2

Synthesis of ferrocene ...

S/079/63/033/001/013/023
D204/D307

poured into ice water acidified with HCl; the organic layer was washed with 5% aq. NaOH, and with H₂O, and was then dried over MgSO₄. Ether was then evaporated off, unreacted alkyindene was removed with superheated steam (200°C) and the residue was distilled, at 2 - 5 mm Hg, under N₂. Di-(alkylindenyl) iron analogs of ferrocene were obtained; the violet-black ethylindenyl- and allylindenyl derivatives were not, however, fully characterized owing to the difficulty of preparing sufficiently pure starting alkyindenyles. Di(butylindenyl)-, di(phenylindenyl)-, and di(benzylindenyl) irons were obtained in 10 - 20% yields. The butyl derivative was violet-black, the remaining 2 were black. The benzyl derivative had a m.p. of 131 - 133°C. There are 2 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: February 2, 1962

Card 2/2

SOKOLOVA, Ye. B.; SHEBANOVA, M. P.; CHZHOU KHEN-TSZIN' [Chou Heng-chin]

Synthesis of ferrocene analogs. Zhur. ob. khim. 33 no.1:
217-220 '63. (MIRA 16:1)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D. I.
Mendeleeva.

(Ferrocene)

45172

15,8150

S/020/63/148/003/024/037
B117/B186

AUTHORS: Petrov, A. D., Corresponding Member AS USSR, Sokolova,
Ye. B., Bakunchik, G. P.

TITLE: Reaction of the methyl esters of ferrocene, mono- and
dicarboxylic acids with α - and γ -magnesium halogen alkyl
silanes

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 3, 1963, 598-600

TEXT: It was shown that silico-neopentyl magnesium chloride, which is structurally similar to neopentyl magnesium chloride, reacts anomalously with the methyl ester of ferrocene monocarboxylic acid and produces silico-neopentyl ferrocenyl ketone. The reaction with dimethyl ester of ferrocene dicarboxylic acid also proceeded in a similar way. Here only one ester group reacted and produced ketonic acid ester. Magnesium chloropropyl trimethyl silane reacted normally with the esters mentioned and produced tertiary alcohol and glycol. From the reaction of methyl esters of ferrocene mono- and dicarboxylic acids, the compounds mentioned below were obtained for the first time with Grignard reagents from trimethyl
Card 1/2

Reaction of the methyl esters ...

S/020/63/148/003/024/037
B117/B186

chloromethyl silane and trimethyl- γ -chloropropyl silane: (trimethyl silyl)-methyl ferrocenyl ketone, $C_{15}H_{20}OFeSi$, melting point $66^{\circ}C$, yield 66% by weight; keto ester of ferrocene dicarboxylic acid, $C_{17}H_{22}OFeSi$, melting point $106-108^{\circ}C$, yield 75% by weight; di- γ -(trimethyl silylpropyl)-ferrocenyl carbinol, $C_{23}H_{40}OFeSi_2$, melting point $60-62^{\circ}C$, yield 90% by weight; 1,1'-bis-[4-hydroxy-1,7-di(trimethyl silyl)-4-heptyl]-ferrocene, $C_{36}H_{70}O_2FeSi_4$, melting point $107-108^{\circ}C$, yield 87% by weight. There is 1 table.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: October 23, 1962

Card 2/2

PETROV, A.D.; SOKOLOVA, Ye.B.; SHEBANOVA, M.P.; GOLOVINA, N.I.

Addition of silicon hydrides to dimethylallylferrocenylsilane in
the presence of H_2PtCl_6 . Dokl. AN SSSR 152 no.5:1118-1121
O '63. (MIRA 16:12)

1. Moskovskiy khimiko-tekhnologicheskii institut im. D.I.Mendeleyeva.
2. Chlen-korrespondent AN SSSR (for Petrov).

SOKOLOVA, Ye.B.; SHEBANOVA, M.P.; TAN TSZUN'-TSZE [T'ang TSun-chieh];
TROYANOVSKAYA, Ye.A.

Condensation of an allyl-type bromide of the $C_7H_{13}Br$ composition
with carbonyl compounds and Grignard reagents. Zhur. ob. khim. 34
no.9:3085-3087 S '64. (MIRA 17:11)

U.S. PATENT OFFICE [No. 3,111,112]; SOLOVYOV, E. I.; GILSON, I. Ye.; LERON, A. D.

Synthesis of monohydropolymerized and acetylenic tertiary alcohols
of the ferrocene series. Dokl. Akad. Nauk SSSR 137 No. 1:111-112 (1960)
'61. (CIA 14:2)

1. Moskovskiy Khimiko-tekhnologicheskii Institut im. I. I. Shubina.
2. Chlen-korrespondent Akad. Nauk SSSR (Perretrov).
(Ferrocene) (Alcohol)

KATSENOVICH, A.L., prof.; MADZHIDOV, V.M., dotsent; KADYROV, V.K., assistant;
SHEKHTEL', A.I.; BISEROVA, M.G.; Primali uchastiye: KHAVKINA, Ye.B.;
SADYMENKO, I.I.; VASIL'YEVA, T.L.; ATAYEVA, T.I.; MYATISHKINA, Z.I.;
TUTAYEVA, V.F.; SAIDOV, T.I.; YAKUBINA, N.I.; SOKOLCVA, Ye.G.;
LOPATO, E.A.; ABDULLAYEVA, N.A.; YELIOKUL'SON, L.M.; BAGDASAROVA, K.A.;
DENISOVA, A.P.

Some unsolved problems of influenzal infection from the aspect of
the epidemic of influenza in 1957 and 1959. Med. zhur. Uzb. no.2:
3-8 F '62. (MIRA 15:4)

(INFLUENZA)

SOLOLOVA, YE.G.; RAKKIN, YE.I.

"The Effect of Fluorescent Lighting on the Time Threshold of Chromatic Fatigue," Proble. Fiziol. Optiki, Vol 6, 1953, pp 154-160

The effect of fluorescent lighting on the level of relative stability of chromatic vision was studied by determining the time thresholds of chromatic fatigue after preliminary adaptation to light sources with various spectral compositions. A Mäkel anomaloscope, and exposure to light of different wave lengths coming from incandescent and fluorescent daylight lamps, were employed. Daylight and white fluorescent light increased the stability of chromatic vision. Yellowlight from an incandescent source was much less effective on the green than on the red perception apparatus of the eye. Irritations close to the spectral composition of daylight considerably affected both apparatus. (RusBiol, No 5, 1974)

SO: Sum. No. 536, 10 Jun 55

RABKIN, Yefim Borisovich, professor; doktor meditsinskikh nauk; SOKOLOVA,
Ye. G. redaktor; BOBROVA, Ye. N., tekhnicheskii redaktor

[Polychromatic tables for the study of color sense] Polikhromaticheskie tablitsy dlia issledovaniia tsvetooshchushcheniia. Izd. 6-e. perer. i dop. [Moskva, Gos. izd-vo med. lit-ry, 1954. 61 p. 30 plates. (MIRA 8:3)
(Color sense)

Sokolova, Ye. G.
USSR/Optics - Physiological Optics

K-9

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13181

Author : Sokolova, Ye.G.

Inst : Scientific Research Laboratory, TsNILGE and Laboratory for Color Vision, TsNILGE, Main Military Sanitation Administration, Ministry of Means of Communications, USSR.

Title : Instrument for the Investigation of Stability of Chromatic Vision.

Orig Pub : Probl. fiziol. optiki, 1955, 11, 53-55

Abstract : Description of an instrument for the determination of the minimum (threshold) time of exposure, necessary to destroy the stability of color differentiation. The action of the instrument is based on presenting a field of vision, whose dimensions vary from 1° to 5° , separated into two halves. The colors of the two halves of the field are varied

Card 1/2

USSR/Optics - Physiological Optics

K-9

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 13181

independently of each other by means of a light-filter installation. The transmission bands of the light filters are on the order of 50 -- 60 millimicrons. The effective wavelengths of the light filters (in millimicrons) are: red 650, yellow 590, green 525, and blue 470. The brightness of the two halves of the field of view can be varied both simultaneously, as well as separately for each field. The disturbance of the stability of color differentiation is established from the ability of determining the color difference between the halves of the field of view at equal brightness. The instrument is a monocular one. The use of light filters makes it possible to use the instrument for extensive clinical practice.

Card 2/2

SOKOLOVA, Ye. G.

SOKOLOVA, Ye. G.: "The functional stability of the light-resolving power of the visual analyzer under normal conditions and in certain disorders to the functioning of the central nervous system and the optic apparatus." Acad Med Sci USSR. Inst of Physiology imeni I.P. Pavlov. Leningrad, 1956.
(Dissertations for degree of candidate in Medical Sciences).

SO: Knizhnaya letopis' No 22, 1956

BARKIN, Yefim Borisovich, prof.; SOKOLOVA, Ye.G., red.; GABERLAND, M.I.,
tekhn. red.

[Pigmentary tables for studying the acquired pathology of color
vision] Pigmentnye tablitsy dlia issledovaniia priobretennoi pa-
tologii tsvetovogo zreniia. Izd.2., perer. i dop. Moskva, Gos.
izd-vo med.lit-ry Medgiz, 1960. 32 p. plates (MIRA 14:6)
(COLOR SENSE)

RABKIN, Yefim Borisovich, prof., doktor med. nauk; SOKOLOVA, Ye.G.,
red.; KUZ'MINA, N.S., tekhn. red.

[Polychromatic charts for studying color perception] Polikhroma-
ticheskie tablitsy dlia issledovaniia tsветоoshchushcheniia. Izd.7.,
perer. i dop. Moskva, Medgiz, 1962. 63 p. plates. (MIRA 15:6)
(COLOR SENSE)

RABKIN, Ye.B., prof.; SOKOLOVA, Ye.G., kand.med.nauk

Color serves health. Zdorov'ie 9 no.5:23-24 My'63. (MIRA 16:9)
(COLOR--PSYCHOLOGY) (COLOR--PHYSIOLOGICAL EFFECT)

RABKIN, Yefim Borisovich, doktor med. nauk, prof.; SOKOLOVA,
Yelena Georgiyevna, kand.med.nauk; SOROKO, Ya.I., red.;
RAKITIN, I.T., tekhn.red.

[Color around us] TSvet vokrug nas. Moskva, Izd-vo
"Znanie," 1964. 31 p. (Novoe v zhizni, nauke, tekhnike.
VIII Seriya: Biologiya i meditsina, no.4) (MIRA 17:3)



RABKIN, Yefim Borisovich, prof.; SOKOLOVA, Yelena Georgiyevna, kand. med. nauk; FRID, Yudol'f Vladimirovich, kand. tekhn. nauk; KOVAL'SKIY, Nikolay Nikolayevich, inzh.-khim.; CHERNIGOVSKIY, V.N., akademik, red.; KARPOVA, N.L., red.

[Aid for efficient color schemes; with colorimetical index of samples] Rukovodstvo po ratsional'nomu tsvetovomu oformleniiu; s naborom kolorimetrirovannykh obraztsov tsvetov. Moskva, Izd-vo "Transport," 1964. 46 p.
(MIRA 17:4)

1. Predsedatel' komissii po fiziologicheskoy optike pri Institute fiziologii im. I.P.Pavlova AN SSSR (for Chernigovskiy).

RABKIN, Ye.B., prof.; SOKOLOVA, Ye.G., kand.med.nauk

Efficient use of color in railroad transportation. Zhel.dor.transp.
47 no.10:63-65 O '65. (MIRA 18:10)

1. Rukovoditel' laboratorii tsvetovogo zreniya Vsesoyuznogo
nauchno-issledovatel'skogo instituta zheleznodorozhnoy gigiyeny
(for Rabkin).

SOKOLOVA, Ye.I. [deceased]; BRAYNZANOVA, G.T.; BUCHANOVA, N.S.;
ZHUKHAREVA, V.I.; ZAKUMBAYEV, A.K.; ISAYEVA, M.G.;
IMAMBAYEVA, U.A.; KRIVOSHEYEV, Yu.O.; KUDAYBERGENOV,
Zh.D.; RAKHMETCHIN, S.; TYUTYUKOV, F.M.; SHIM, P.S.;
LAZARENKO, Ye.I.; GARANKINA, A.I.; D'YACHENKO, R.;
PETUKHOV, R.M., kand. tekhn. nauk, nauchn. red.;
SHUPLOVA, M.A., red.; LEVIN, M.L., red.; ROROKINA, Z.P.,
tekhn. red.

[Food industry of Kazakhstan] Pishchevaia promyshlennost'
Kazakhstana. Alma-Ata, Izd-vo AN KazSSR, 1963. 172 p.

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut eko-
nomiki.

(Kazakhstan--Food industry)

DEMENT'YEV, A.P.; ISAYEVICH, N.Ye.; KASHKAROVA, T.D.; SOKOLOVA, Ye.I.;
TIMOFEYEV, L.N.; TIMOFEYEV, N.N. (Leningrad)

Forensic psychiatric aspect of the delirium of jealousy and its
compulsory treatment. Zhur. nevr. i psikh. 63 no.10:1554-1562 '63.
(MIRA 17:5)

FROLOVA, M.A.; SOKOLOVA, Ye.I.

Study of reactivity of the cells in antitoxic immunity by the tissue culture method. Zhur. mikrobiol., epid. i imm. 41 no. 2:10-15
F '64. (MIRA 17:9)

1. Moskovskiy institut vaktsin i syvorotok imeni Mechnikova.

SOKOLOVA, Ye.I.

Meat and dairy industries of southern Kazakhstan. Trudy
Inst. ekon. AN Kazakh. SSR 5:89-123 '60. (MIRA 14:9)
(Kazakhstan--Meat industry)
(Kazakhstan--Dairy industry)

3(5)

SOV/9-59-7-13/15

AUTHOR: Sazonov, N.

TITLE: On the All-Union Conference on Specification of a Unified Stratigraphic System of Mesozoic Deposits in the Russian Plateau

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 7, pp 60 - 63 (USSR)

ABSTRACT: The All-Union Conference for setting-up a specified unified stratigraphic system of Mesozoic deposits in the Russian plateau took place from December 8th to 13th, 1958 at Moscow. It was attended by 172 delegates from different cities and organizations. The Conference heard 9 reports in plenary sessions and 32 reports in sectional sessions. They were delivered by Ye.I. Sokolova (VNIGRI) on projected subdivision of the Triassic system; N.T. Sazonov (VNIGRI) on the Jurassic system; I.G. Sazonova on the lower section of the Cretaceous systems; S.N. Koltypin (VNIGRI) and D.P. Naydin (MGU) on the upper section of the

Card 1/2

SOV/9-59-7-13/15

On the All-Union Conference on Specification of a Unified Stratigraphic System of Mesozoic Deposits in the Russian Plateau

Cretaceous system. Reports were also delivered by M.M. Moskvina, A.V. Fursenko, I.M. Yamnichenko, O.K. Kaptarenko-Chernousova, G.Ya. Krymgol'ts and others. The Conference approved the subdivision of the above-mentioned systems according to the submitted materials.

Card 2/2

SOKOLOVA, Ye.I.

Dilantin therapy of epilepsy in children and adolescents. Zhur.nevr.1
psikh. 53 no.5:385-386 My '53. (MLRA 6:5)

1. Kafedra psikhiatrii Ishevskogo meditsinskogo instituta. (Epilepsy)

SOKOLOVA, Ye.I.

Invitro determination of the toxigenic properties of *Corynebacterium diphtheriae* in mixed cultures. Zhur.mikrobiol.epid. i immun. 29
no.5:37-39 My '58 (MIRA 11:6)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.
(*CORYNEBACTERIUM DIPHTHERIAE*, culture,
mixed cultures, toxigenic properties (Rus))

SOVETSKAYA, Ya. I.

SOVETSKAYA, Ya. I. -- "Experiment' in 'the Clinical and Functional Study of
the Therapeutic Effect of Bimodal in Lichin Dermatosis." In
1985, 1985. First Leningrad Medical Inst Academician I. P.
Pavlov. Leningrad, 1985. (Dissertation for the Degree of Candidate
in Medical Sciences)

SC: Knishruga Letovis', No 1, 1956

Sokolova, V. I.

Distr: 4E4j

~~Equilibrium systems of the basic and simple oxides of iron in chloride and sulfate salt solutions. A. V. Kozakov, E. I. Sokolova, and A. Z. Valnshtein. Trudy Inst. Geol. Nauk, Akad. Nauk S.S.S.R. No. 152, Geol. Ser. No. 64, 72-82(1957).—A literature review on limonite, goethite, and hydrohematite is given, and goethite and lepidocrocite are described. The systems $FeCl_3-KOH-H_2O$ and $Fe_2(SO_4)_3-KOH-H_2O$ at 20° are studied. Analyses (26) of liquid and solid phases in the pure chloride system and 12 analyses of the same system with sea water and 34 analyses of the sulfate system phases are given. D-spacing data of the solid phases and graphs indicating pH conditions during the pptns. are included. The soly. of goethite and lepidocrocite is studied. Many references.~~

PM

6
1

~~SOKOLOVA, Yelena Ivanovna~~; LISTOVA, Lidiya Pavlovna; VAYNSHTEYN, Anna Zimil'yevna
POSTOVALOV, L.V. redaktor; ZAL'TSMAN, Ye.I., redaktor; POLESITSKAYA,
S.M., tekhnicheskii redaktor.

[Equilibrium systems of ferri- and ferrosilicate sulfates and
chlorides] Ferrisilikatnye i ferrosilikatnye sul'fatnye i khloridnye
sistemy ravnovessia. Moskva, Izd-vo Akademii nauk SSSR, 1956. 65.
(Akademiia nauk SSSR. Geologicheskii institut. Trudy, no.3)
(Silicates) (Sulfates) (Chlorides) (MIRA 9:10)

30KOLOVA, Ye. I.
SOKOLOVA, Ye. I.; LISTOVA, L.P.; VAYNSHTEYN, A.Z.

Synthesis of ferri- and ferrosilicates. Dokl. AN SSSR 96 no.6:
1225-1228 Je '54. (MLBA 7:8)

1. Predstavleno akademikom D.I. Shcherbakovym.
(Iron silicates)

SOKOLOVA, Ye. I.

"The Nature of Brown Mountain-Forest Soils of Crimea," Pedology, No. 8, 1947.

SOKOLOVA, YE. I.

6213

CONDITIONS OF THE FORMATION OF FLUORITE IN
SEDIMENTARY ROCKS. (THE FLUORITE SYSTEM).

A. V. Kazakov and E. I. Sokolova. Translated by V. L.
Skitsky from *Trudy Inst. Geol. Nauk, Akad. Nauk S.S.S.R.*
No. 114, Geol. Ser. No. 40, 22-64(1950). 76p. (TEI-386)

The formation of fluorite in sedimentary rocks has been investigated by studies of fluorite equilibria in different solutions. Determinations at different temperatures were made on the solubility of crystalline CaF_2 in chemically pure water, in aqueous solutions of components of sea water— CaSO_4 , NaCl , Na_2SO_4 , and MgSO_4 —at different concentrations, and in the sea water itself at degrees of salinity varying from normal to a 15-fold concentration. Conclusions are reached on the effects of the various salts and on the consequent possibilities of fluorite precipitation in basins of different types. Facies conditions of fluorapatite and fluorite deposition are derived for successive states of evaporation of saline basins, and the use of the fluorine-phosphorus coefficient as a facies index is suggested. Literature is reviewed. (V.L.S.)

SOKOLOVA YE.I.
OLYUNIN, V.N.: SOKOLOVA, Ye.I.

On the origin of loess-like deposits at the foot-hills of
Fergana. Biul.Kom.chetv.per. no.19:65-69 '53.(MLHA 7:11)
(Fergana--Loess) (Loess--Fergana)

DOMANEVSKIY, Nikolay Alekseyevich; ANTONOV, B.S., redaktor; SOKOLOVA, I.I.,
redaktor; BEGICHEVA, M.N., tekhnicheskii redaktor.

[River dredging equipment and its operation] Rechnye zemsnariady i
ikh rabota. Moskva, Gos. izd-vo vodnogo transporta, 1954. 233 p.
[Microfilm] (MLRA 7:11)
(Dredging)

SOKOLOVA, Ye. I.

Stratigraphy of the Triassic period in the northwestern part of
the Donets Basin. Geol.sbor. no.3:60-80 '55. (MLBA 3:6)
(Donets Basin--Geology, Stratigraphic)

VYALOVA, R.I., redaktor; DROBYSHEV, D.V., redaktor; KOLTYPIN, S.N., redaktor;
MOISEYENKO, V.S., redaktor; SAZONOV, N.T., redaktor; SOKOLOVA, Ye.I.,
redaktor; YASHCHURZHINSKAYA, A.B., vedushchiy redaktor; GENNAD' YEVA,
I.M., tekhnicheskiiy redaktor

[Proceedings of the All-Union Conference on the Development of a
Uniform System of Stratigraphy of Mesozoic Deposits of the Russian
Platform] Trudy Vsesoiuznogo soveshchaniia po razrabotke unifitsirovan-
noy skhemy stratigrafii mezozoyskikh otlozhenii Russkoy platformy.
Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry,
Leningradskoe otd-nie, 1956. 383 p. (MLRA 9:12)

1. Vsesoyuznoye soveshchaniye po razrabotke unifitsirovannoy skhemy
stratigrafii mezozoiskikh otlozhenii Russkoy platformy, 1954.
(Russian Platform--Geology, Stratigraphic)

Сokolova, Ye. I.

15-1957-7-8973

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 15 (USSR)

AUTHOR: Sokolova, Ye. I.

TITLE: Unified Scheme of Stratigraphy of the Triassic Rocks
of the Russian Platform (Project) [Unifitsirovannaya
skhema stratigrafii triasovykh otlozheniy Russkoy
platformy (Proyekt)]

PERIODICAL: V sb.: Tr. Vses. soveshchaniya po razrabotke
unifitsir. skhemy stratigr. mezozoyskikh otlozheniy
Rus. platformy. Leningrad, 1956, pp 7-18

ABSTRACT: The wide distribution of Triassic rocks on the Russian
platform, their inadequate study, and the difficulty
of their subdivision and correlation are noted. The
author divides the Lower Triassic into the Vetluzhskiy
and the Baskunchakskiy stages; in the first of these
he places all continental formations, Buzulukskiy,
Tananykskiy, Romashkinskiy, and other series, but in

Card 1/3

15-1957-7-8973

Unified Scheme of Stratigraphy of the Triassic Rocks of the Russian Platform (Cont.)

the second he puts only marine rocks, the Bogdinskiy series. Summaries are given for the Lower Triassic rocks of the Donets basin, the Don-Medveditsa uplift, the Bolshoye Bogdo Mountains, the environs of Lake Inder, the Gur'yevsk region, the northern Emba, the Aktyubinsk, Chkalov, and Bashkir Ural region, the Samarskoye trans-Ural region, the northern oblasts, the basin of the Vyatka and Vetluga, and the swampy forests and the northern part of the Polish-Lithuanian basin. These are brief accounts of the local arrangement of subdivisions, lithology, and fossil discoveries. Middle and Upper Triassic rocks have been identified only within large tectonic downwarps--the northwestern Donets basin, the Caspian basin, and the southern part of the fore-Ural downwarp. Traces of marine rocks of this age occur only in the Inder region. In other places only continental deposits are found, predominantly Upper Triassic, and grouped into a number of series (Protopivskiy, Kurashasay-skiy, Kuraylinskiy, Yushatyrskiy, Surakayskiy, and others);

Card 2/3

15-1957-7-8973

Unified Scheme of Stratigraphy of the Triassic Rocks of the Russian Platform (Cont.)

they have a characteristic flora and contain rare remains of quadruped vertebrates. It was proposed that the Rhaetian stage remain in the Triassic. A diagram was prepared comparing the unified scheme of Triassic stratigraphy of the Russian platform with the Triassic schemes of Mangyshlak and the northern Caucasus.

B. P. B'yushkov

Editor's note. The principal objection arises from the uniting of all continental deposits of Lower Triassic age, among which groups of quadruped vertebrates of various kinds and of obviously different ages occur, into the Vetluzhskiy stage, inasmuch as they are rather closely paralleled by marine rocks of the Bogdinskiy series (Tananykskiy and Romashkinskiy series). Thus this grouping violates generally accepted stratigraphic principles.

Card 3/3

SOKOLOVA, Ye.I.

Correlation of the gypsum-dolomite series of the lower Permian in
the northwestern Donets Basin. Trudy VNIGRI no.95:89-111 '56.

(MLRA 9:12)

(Donets Basin--Geology, Stratigraphic)

SURCLAVA, Ye. I.

УДИН, Н.И.

3(8) *p* PHASE I BOOK EXPLOITATION 907/1575
Akademiya nauk SSSR. Sovet po ischeniyu proizvoditel'nykh sil
Oshetki osadochnykh mestozhiznykh iskopnykh (Description
of Sedimentary Mineral Deposits) Moscow, Izd-vo AN SSSR, 1958.
84 p. 5,000 copies printed.

Resp. Ed.: L.V. Pustovalov, Corresponding Member, USSR Academy of
Sciences; Ed. of Publishing House: G. I. Mosov, tech. Ed.:
S. G. Markovich

PURPOSE: This publication is intended for mining geologists,
stratigraphers, petrographers, and mineralogists.

CONTENTS: This collection of articles is devoted to a description of
of several minerals found in Eastern Siberia, and a discussion of
the conditions of their deposition by regions. Individual
articles report on the Berezovskoye iron ore deposits, the
Berezovskoye iron ore deposit, the iron ore
deposits of the Angaro-Pitkiy Basin, and the Kheperakiy region.
The articles are accompanied by diagrams, tables, and bibli-
ographic references.

Card 1/3

Serdushenko, D.P. Devonian Iron-haunite Oolitic Formation	3
Yaroshchev-Shak, V.A., and M.Kh. Platonov. Native Iron From Devonian Iron Ores of the Kheperakiy Region	25
Glebov, A.V. Tourmaline and Magnetite Quartzites of the Amudzhik River in Southern Yakutiya	28
Pavlov, V.A. Polimineral Pseudomorphs After Ludwigite	43
Rudin, M.I. Iron Ores of the Angaro-Pitkiy Basin	47

Card 2/3

Kargulya, M.I. Titeriferous Minerals From the Bakal'skoye Deposit	61
Sokolova, Ye.I., and A.A. Ryabinina. Physicochemical Study of Iron Ores and Their Mother Rocks at the Berezovskoye Deposit in Zabaykalye	73

AVAILABLE: Library of Congress

Card 3/3

HW/ml
4-30-59

SOKOLOVA, Ye.I.

[Permian and Triassic sediments in the western and southern parts of the Caspian Depression.] Permskie i trisovye otlozheniia zapadnoi i iuzhnoi chastei Prikaspiiskoi vpadiny. Leningrad, Gos.nauch-tekhn. izd-vo نفت. i gorno-toplivnoi lit-ry. Leningr. otd-nie. 1958. 100 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologo-razvedochnyi institut. Trudy, no.118) (MIRA 11:11)
(Caspian Depression--Geology, Stratigraphic)

SECRET, Vol. 1

3(5) PHASE I BOOK EXPLOITATION 30V/1827
Vostochnyy nauchno-issledovatel'skiy geologorazvedochnyy naftnyy institut

Geologiya i nefte-gazonenest' Yugo-vostochnykh rayonov Russkoy platformy shornik statey (Geology and Oil and Gas Bearing Characteristics of the Southeastern Regions of the Russian Platform). Collection of Articles. Leningrad, Gosoptekhnizdat, 1958. 242 p. Errata slip inserted. 1,200 copies printed.

Resp. Ed.: Ye.S. Sventov; Eds.: M.S. Burenar, M.S. Il'ina, and S.A. Sakhnovskiy; Tech. Ed.: A.B. Yashchurzhinskaya; Executive Ed.: M.V. Kulikov.

PURPOSE: This book is intended for petroleum exploration geologists, particularly those interested in the Russian platform area.

COVERAGE: These articles, originally read at a meeting of the Scientific and Technical Council of the Ministry of the Petroleum Industry (1953), discuss the geologic structure of the south-

Card 1/5

eastern parts of the Russian platform, the planning of exploratory and prospecting work, and special problems in geochemistry. Studies are aimed at realizing the oil and gas potential of the area. Representatives of VNIIGI, VNIIGI, the Stalingradnafte-remontnyy Zavod, Saratovskiy, Kazakhtanefit', and Gruzneft' contributed to the work. No references are given.

TABLE OF CONTENTS:

Geology and Oil and Gas Bearing (Cont.)	30V/1827
Sventov, Ye.S. Results of the VNIIGI Explorations in the Western Part of the Prikaspiyskaya Depression	101
Sakelov, Ye.I. Results of the Permian and Triassic Studies in the Prikaspiyskaya Depression	120
Donshteyn, G.Kh. Tectonic Structure of the Northern Part of the Rostovskaya and the Western Part of the Stalingradskaya Oblast'	130
Grebilin, Ye.A. Results of Studies Made by the Stalingrad-naftogoravvedchny Trust on the Structures Adjacent to the Prikaspiyskaya Depression	146
Karpov, P.A. The Devonian of the Stalingradskaya Oblast'	161
Yariker, G.M. The Lithological and Stratigraphic Characteristic of the Carboniferous Sediments of the Stalingradskaya Oblast' and the Prospects of Their Bearing Gas and Oil	172
Murysheenko, M.M. Basic Features of the Tectonics and Paleogeography of the Stalingradskoye Povolzh'ye	182

Card 2/5

AYZENSHADT, G.Ye.-A.; DNEPROV, V.S.; KOLTYPIN, S.N.; SOKOLOVA, Ye.I.

Oil and gas potentials of the southern Emba region and adjacent southern territories. Geol.nefti 2 no.9:19-25 S '58.

(MIRA 11:10)

1.Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-razvedochnyy institut.

(Kazakhstan--Gas, Natural--Geology)

OLYUNIN, V.N., SOKOLOVA, Ye.I.

Mineral composition of loess type sediments in the foothills of
the Fergana Valley. Trudy Inst. geog. 80:118-123 '60.

(MIRA 13:8)

(Fergana--Loess)

SOKOLOVA, Yekaterina Ivanovna; IVANOVA, Yekaterina Nikolayevna; YEGOROV,
Ivan Petrovich; KOROBEKOV, I.A., nauchnyy.red.; DAYEV, G.A., vedushchiy
red.; FRUMKIN, P.S., tekhn.red.

[Permian and Triassic sediments in the Yuzhnaya Emba and their oil
potential] Permskie i triasovye otlozheniia Iuzhnoi Emby i ikh
neftenosnost'. Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-
toplivnoi lit-ry. Leningr.otd-nie, 1961. 194 p. (Leningrad.
Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi
institut. Trudy, no.164). (MIRA 14:8)
(Emba Valley--Petroleum, Geology)

SOKOLOVA, Yelena Ivanovna; PUSTOVALOV, L.V., otv. red.; FEODOT'YEV,
K.M., red. izd-va; MAKOGONOVA, I.A., tekhn. red.

[Physicochemical investigation of sedimentary iron and manganese
ores and enclosing rocks (oxidation-reduction and basic-acid
properties of sedimentary ore-bearing complexes)] Fiziko-
khimicheskie issledovaniia osadochnykh zheleznykh i margantsevykh
rud i vmeshchaiushchikh ikh porod (okislitel'no-vosstanovitel'nye
i shchelochno-kislotnye svoistva osadochnykh rudonosnykh kompleksov).
Moskva, Izd-vo Akad. nauk SSSR, 1962. 214 p. / (MIRA 15:5)

1. Chlen-korrespondent Akademii nauk SSSR (for Pustovalov).
(Iron ores) (Manganese ores)

FEL'DSHTEYN, E.I., doktor tekhn. nauk; MISHIN, P.A.; SOKOLOVA, Ye.I.;
FEYGIN, Z.E.

Sulfo-cyaniding of metal-cutting tools. Avt. prom. 29 no.4:
37-39 Ap '63. (MIRA 16:6)

1. Minskiy avtozavod.
(Case hardening)
(Metal-cutting tools)

I 36335-65 EWT(1)/FCC GW
ACCESSION NR: AT5005821

S/3116/64/271/065/0065/0069

11
10
B+1

AUTHOR: Sokolova, Ye. K.

TITLE: The effect of observation errors on the accuracy of the polynomial approximation to the altitudes of isobaric surfaces

SOURCE: Leningrad. Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 271, 1964. Chislennyye metody issledovaniya gidrometeorologicheskikh usloviy v Arktike s ispol'zovaniyem elektronnykh tsifrovyykh vychislitel'nykh mashin; sbornik statey (Numerical methods of investigating hydrometeorological conditions in the Arctic using electronic digital computers; collection of articles), no. 1, 65-69

TOPIC TAGS: numerical forecasting, electronic digital computer, polynomial approximation, altitude estimation, isobaric surface, atmospheric pressure, error estimation, Borisenkov method

ABSTRACT: The paper deals with the effects of gross errors on the accuracy of the polynomial approximation for the absolute geopotential field of standard isobaric surfaces of 800, 700, 500, 300, 200 and 100 mb using Borisenkov's method, for a dense network of stations. The effect of random measurement errors on accuracy is also considered and tentative recommendations are made for correcting

Card 1/2

L 36335-65
ACCESSION NR: AT5005821

errors by pre-editing data. A third-order polynomial approximation was used, coefficients were determined by the least squares method with the aid of the Ural-2 electronic computer, and the mean errors obtained were tabulated. It was concluded that the error in approximating the geopotential by a power series for a dense network of stations was: 0.3-0.4 gp dkm for the 850, 700, 500 and 300 mb stations and 0.5-0.7 gp dkm for the 200 and 100 mb stations, the error slightly increasing with height. Errors greater than 5 gp dkm may be considered to be gross and should be corrected in pre-editing. Orig. art. has: 1 table, 2 figures and 1 equation.

ASSOCIATION: Arkticheskiy i Antarkticheskiy nuachno-issledovatel'skiy institut, Leningrad (Arctic and Antarctic Scientific Research Institute);

SUBMITTED: 00.

ENCL: 00

SUB CODE: ES, DP

NO REF SOV: 001

OTHER: 000

Card

2/2 *ko*

ZERCHANINOV, L.K.; SOKOLOVA, Ye.K.

Opisthorchiasis and diphyllbothriasis in Sverdlovsk Province. Med.
paraz.i paraz.bol. 26 no.6:714-717 N-D '57. (MIRA 13:4)

1. Iz parazitologicheskogo otdela Sverdlovskogo nauchno-issledo-
vatel'skogo instituta epidemiologii i mikrobiologii Ministerstva
zdravookhraneniya RSFSR (direktor instituta G.F. Bogdanov).
(SVERDLOVSK PROVINCE--WORMS, INTESTINAL AND PARASITIC)
(LIVER FLUKE)

SOV/79-29-2-37/7:

AUTHORS: Mel'nikov, N. N., Sokolova, Ye. M., Trancov, P. P.

TITLE: On the Field of Organic Insectofungicides (Iz oblasti organicheskikh insektofungitsidov). XL. Synthesis of Some New Sulfamide Derivatives (XL. Sintez nekotorykh novykh proizvodnykh sul'famidov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 529-532 (USSR)

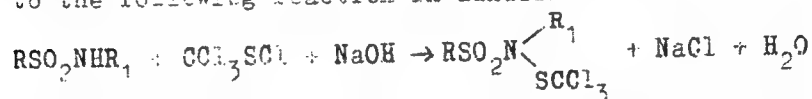
ABSTRACT: Recently many products containing the trichloro-methyl mercapto group have been suggested as fungicides which have only a low toxic effect on plants and warm-blooded animals. Substances of this kind are primarily the trichloro-methyl thioamides and the imides of various carboxylic and sulfo acids (Refs 1-3); the trichloro-methyl esters of thiosulfo acids (Ref 4), etc. In connection with that, the authors investigated various organic compounds containing the trichloro-methyl mercapto group. First, various trichloro-methyl thioamides of the sulfo acid of the fatty and aromatic series were synthesized and investigated. It was shown herein that also some sulfo acidamides without the trichloro-methyl mercapto group are active insectofungicides, especially the n-thiocyanic anilides of methane acids and n-

Card 1/2

SOV/79-29-2-37/71

On the Field of Organic Insectofungicides. XL. Synthesis of Some New Sulfamide Derivatives

chloro-benzene sulfo acids which so far have not yet been described. The sulfo acid amides were synthesized by reaction of chloric anhydrides of the corresponding sulfo acids with amine excess in an organic hydrophobic solvent. The sulfo acid amides synthesized for the first time are listed in table 1. The trichloro-methyl thioamides of sulfo acids were obtained according to the following reaction in alkaline medium:



The compounds synthesized and their properties are listed in table 2. Three of them are new. Not every sulfamide that contains the trichloro-methyl mercapto group is a strong fungicide; only the products 1-3 and 5-7 possess this property (Table 2). There are 2 tables and 7 references, 2 of which are Soviet.

ASSOCIATION: Nauchnyy institut po udobreniyam i insektofungitsidam
(Scientific Institute of Fertilizers and Insectofungicides)

SUBMITTED: December 28, 1957

Card 2/2

MEL'NIKOV, N.N.; SOKOLOVA, Ye.M.; SKALOZUBOVA, A.V.; TRUNOV, P.P.; ZUBOV,
M.F.; GOLYSHIN, N.M.

Investigation of new copper-free fungicides for green plants
and new mercury-free seed disinfectants. [Trudy] NIUIF nc.164:
16-20 '59. (MIRA 15:5)

(Fungicides) (Seeds--Disinfection)

MEL'NIKOV, N.N.; ZETKIN, V.I.; LIBMAN, B.Ya.; SOKOLOVA, Ye.M.; ZAKHAROV,
Ye.V.; PARFENOV, A.I.; TRUNOV, P.P.; GOLYSHIN, N.M.

Organic fungicides as substitutes for copper-containing preparations.
Khim. prom. no.10:28-30 0 '61. (MIRA 15:2)
(Fungicides)

TRUNOV, F.P.; SOKOLOVA, Ye.M.

Improved method for preparing perchloromethyl mercaptan. Khim.
prom. no.10:30-32 0 '61. (MIRA 15:2)
(Methanethiol)

MEL'NIKOV, N.N.; SOKOLOVA, Ye.M.; TRUNOV, P.P.

Ethylene-bis-dithiocarbamate of zinc as a substitute for copper
preparations. [Trudy] NIUIF no.171:111-116 '61. (MIRA 15:7)
(Fungicides) (Zinc organic compounds)

MEL'NIKOV, N.N.; SOKOLOVA, Ye.M.; TRUNOV, P.P.; BRUSENINA, G.I.

Preparation of captan, a fungicide. Zhur.prikl.khim. 34 no.11:
2550-2554 N '61. (MIRA 15:1)

(Captan)

L 04964-67 EWT(m)/EWP(j)/EWP(t)/ETI LJP(c) JD/WB/RM
 ACC NR: AP6006723 SOURCE CODE: UR/0303/66/000/001/0053/0055
 AUTHOR: Sokolova, Ye. M.; Naumova, S. F.; Mikhaylovskiy, Yu. N.; Zubov, P. I.
 ORG: none
 TITLE: New rapid method of evaluating the protective properties of polymer coatings on metals in corrosive media
 SOURCE: ²⁷Lakokrasochnyye materialy i ikh primeneniye, no. 1, 1966, 53-55
 TOPIC TAGS: protective coating, corrosion
 ABSTRACT: A rapid method is proposed for evaluating the protective properties of coatings on metals in any corrosive media (i. e., liquid electrolytes, nonelectrolytes or gaseous media). It involves the recording of the change in the resistance of the metal base during the testing. PE-500¹⁵ polyethylene, PVKh-990¹⁵ polyvinyl chloride and Teflon¹⁵ were thus tested (in the form of films 90, 190 and 60 μ thick respectively) in HCl and HNO₃ vapors. The polymer films were bonded with polyisobutylene adhesive to magnesium films evaporated onto glass (magnesium was chosen as the metal base because of its high corrosion activity). In the HCl atmosphere, magnesium begins to dissolve immediately after the sample comes in contact with the HCl vapor. The protective properties of the polymer films studied increase in the series polyvinyl chloride - Teflon - polyethylene for both HCl and HNO₃. The results lead the authors to recommend this method as a means of evaluating the protective properties of paint and
 Card 1/2 UDC: 667.61

L 04964-67

ACC NR: AP6006723

varnish and insulation coatings on metals. Orig. art. has: 4 figures and 1 formula.

SUB CODE: 11/ SUEM DATE: none/ ORIG REF: 008/ OTH REF: 004

Card 2/2

ACC NO: AP0025390

SOURCE CODE: UR/0366/66/002/037/1196/1199

AUTHOR: Volodkovich, S. D.; Liberman, G. I.; Mel'nikov, N. N.; Sokolova, Ye. M.

ORG: All-Union Scientific Research Institute of Chemicals for Plant Protection
(Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchit rasteniy)

TITLE: Organic insectofungicides. XCVIII. Synthesis of some trichloroalkyl- and dichloroalkenyldithiocarbamates

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 7, 1966, 1196-1199

TOPIC TAGS: insectofungicide, dithiocarbamate ester, chloroderivate, *INSECTICIDE*, *PESTICIDE*

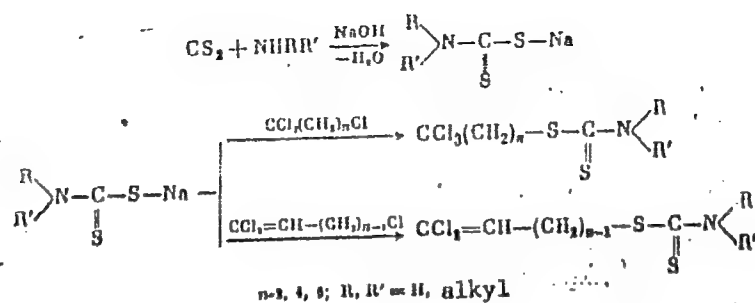
ABSTRACT:

In a search for new pesticides, the following previously unreported trichloroalkyl and dichloroalkenyl thiocarbamates (shown in the table) were obtained according to the two-stage reaction:

Card 1/1

UDC: 542.955.2 : 547.5

ACC NR: AP6025390



These new compounds showed low pesticidal activity.

Card 2/4

ACC NR: AP6025390

Table. 1

No.	Compound	mp or bp (p in mm)	n _D ²⁰	d ₄ ²⁰	MR _D		Yield (in %)	Found %		Formula	Calculated %	
					Found	Calculated		Cl	S		Cl	S
1	$(CH_3)_2N-C-SCH_2(CH_2)_2CCl_2$	63-63.5°	—	—	—	—	68	35.43	21.56	$C_9H_{11}Cl_2NS_2$	36.16	21.78
2	$(CH_3)_2N-C-S-CH_2(CH_2)_2CH=CCl_2$	160 (0.85)	1.5045	1.2803	68.37	68.70	62	27.93	24.24	$C_9H_{11}Cl_2NS_2$	27.81	24.00
3	$(C_2H_5)_2N-C-S-CH_2CH_2CCl_2$	82-83	—	—	—	—	40	36.48	21.16	$C_9H_{11}Cl_2NS_2$	36.12	21.75
4	$(C_2H_5)_2N-C-S-CH_2-CH=CCl_2$	32-33	—	—	—	—	74	26.11	23.77	$C_8H_{13}Cl_2NS_2$	27.51	24.80
5	$(C_2H_5)_2N-C-S-(CH_2)_2CCl_2$	42-44	—	—	—	—	53	32.24	20.17	$C_{10}H_{13}Cl_2NS_2$	32.02	19.87
6	$(C_2H_5)_2N-C-S-(CH_2)_2CH=CCl_2$	148-150 (0.16)	1.5755	1.2088	78.17	78.02	40	24.47	22.43	$C_{10}H_{11}Cl_2NS_2$	24.63	22.37
7	$(iso-C_7H_{17})_2N-C-S-(CH_2)_2CCl_2$	192-195 (0.85)	1.5628	1.2182	93.32	92.81	29	29.70	19.24	$C_{13}H_{21}Cl_2NS_2$	30.28	18.30
8	$(iso-C_7H_{17})_2N-C-S-(CH_2)_2CH=CCl_2$	168-170 (0.15)	1.5654	1.1723	87.20	87.28	28	23.40	21.00	$C_{13}H_{19}Cl_2NS_2$	23.61	20.40

Card 3/4

ACC NR: AP6025390

Table. 1 (cont.)

No.	Compound	mp or bp (p in mm)	n _D ²⁰	d ₄ ²⁰	M _N		Yield (in %)	Found %		Formula	Calculated %	
					Found	Calculated		Cl	S		Cl	S
9	$(\text{iso-C}_3\text{H}_7)_2\text{N}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CCl}_3$ \parallel S	192-195 (0.55)	1.5485	1.1777	101.93	101.90	33	28.32	18.82	$\text{C}_{19}\text{H}_{35}\text{Cl}_3\text{NS}_2$	28.17	18.83
10	$(\text{iso-C}_3\text{H}_7)_2\text{N}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CH}=\text{CCl}_2$ \parallel S	178-180 (0.4)	1.5550	1.1429	96.05	96.59	45	20.82	18.47	$\text{C}_{19}\text{H}_{33}\text{Cl}_2\text{NS}_2$	20.70	18.71
11	$\text{CH}_3\text{NH}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CCl}_3$ \parallel S	59-62	—	—	—	—	15	38.50	22.45	$\text{C}_7\text{H}_{15}\text{Cl}_3\text{NS}_2$	37.86	22.81
12	$\text{iso-C}_3\text{H}_7\text{NH}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CCl}_3$ \parallel S	70-71	—	—	—	—	22	—	20.19	$\text{C}_9\text{H}_{19}\text{Cl}_3\text{NS}_2$	—	20.73
13	$\text{C}_6\text{H}_5\text{NH}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CCl}_3$ \parallel S	125-128 (10)	1.5215	1.1739	83.52	83.12	54	33.03	19.66	$\text{C}_{18}\text{H}_{25}\text{Cl}_3\text{NS}_2$	33.02	19.83
14	$\text{C}_6\text{H}_5\text{NH}-\text{C}-\text{S}-(\text{CH}_2)_6\text{CH}=\text{CCl}_2$ \parallel S	130 (0.65)	1.5260	1.1320	77.41	77.61	20	—	22.42	$\text{C}_{20}\text{H}_{27}\text{Cl}_2\text{NS}_2$	—	22.87

Orig. art. has: 1 table and 1 formula.

[W.A. 50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 21Jul65/ ORIG REF: 003/ OTH REF: 011/

Card 4/4

ACC NR: AP6027905

SOURCE CODE: UR/0064/66/000/008/0009/0012

AUTHOR: Mel'nikov, N. N.; Bezobrazov, Yu. N.; Trunov, P. P.; Sokolova, Ye. M.; Nayanov, L. D.; Burdakova, A. P.; Balashova, T. V.

ORG: none

TITLE: Preparation of zineb by a one-stage method

SOURCE: Khimicheskaya promyshlennost', no. 8, 1966, 9-12

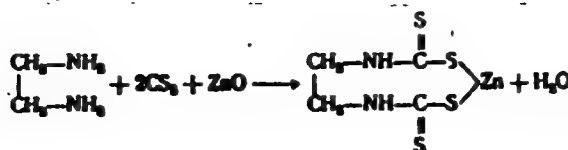
TOPIC TAGS: fungicide, zineb ~~preparation~~, ZINC COMPOUND, CHEMICAL PRODUCTION

ABSTRACT: zineb, [ethylenebis(dithiocarbamate)] zinc, a most effective fungicide but non-toxic for mammals, is produced in large amounts. To select an economical method for commercial production of zineb, various known methods of its preparation are reviewed and compared. It is shown that the previously described one-stage method, involving the reaction (USSR patent, No. 144470, 1961, published in 1962):

Card 1/2

UDC:661.7:547.496.2'313.2'147-38

ACC NR:AP6027905



and later modified by using an NH_3 solution to decrease the losses of ethylenediamine (USSR patent, No. 161728, 1962, published 1964) is recommended as the most economical method of commercial production of zineb. [P5]

[WA-50; CBE No. 14]

SUB CODE: 07/06/SUBM DATE: none / ORIG REF: 003/ OTH REF: 008

Card 2/2

SOKOLOVA, Ye.N.

Characteristics of visualization in school children of various ages
during the process of modeling. Vop. psikhol. 8 no.1:81-88 Jan-F '62.
(MIRA 15:4)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,
Moskva.

(MODELING) (PERCEPTION)

1. SOKOLOVA, Ye. M.
2. USSR (600)
4. Bibliography - Russia - Public Works
7. Books for extracurricular reading in physics and technology for students in the seven-year school. Fiz. v shkole 12, no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

BELOGORSKAYA, N.I.; GALININ, D.D.; GORYACHKIN, Ye.N.; GLAZYRIN, A.I.; DUBOV, A.G.;
YEVROPIN, Yu.P.; YEMOKHOVICH, A.S.; ZVORYKIN, B.S.; IVANOV, S.I.; KRAUKLIS,
V.V.; LAVROVSKIY, K.F.; MENSUTIN, N.F.; MINCHENKOV, Ye.Ya.; NABOKOV, M.Ye.;
PERYSHKIN, A.V.; POPOV, P.I.; POKROVSKIY, A.A.; REZNIKOV, L.I.; SAKHAROV,
D.I.; SOKOLOV, I.I.; SOKOLOVA, Ye.N.; EVENCHIK, E.Ye.; YUS'KOVICH, V.F.

Sergei Nikolaevich Zharkov. [Obituary]. Fiz.v shkole 16 no.3:94-95 My-Je '56.
(Zharkov, Sergei Nikolaevich, 1883-1956) (MIRA 9:7)

~~SOKOLOVA~~, Yevgeniya Nikolayevna,; DROZHZHIN, Yu.N., red.; NATANOV, M.I.,
tekhn. red.

[Center of gravity] TSentr tiazhesti. Moskva, Gos. uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1958. 94 p. (MIRA 11:12)
(Center of mass)

SOKOLOVA, Ye.N. (Moscow)

Special features of physics teaching in boarding schools. Fiz. v
shkole 18 no.4:43-45 J1-Ag '58. (MIRA 11:7)
(Physics--Study and teaching)